

Efficiency and technology gaps in achieving universal health coverage: a metafrontier data envelopment analysis of 189 countries

Eyob Zere Asbu *et al.*

Corresponding author: Eyob Zere Asbu

Email: zeyob@yahoo.com

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Annex 1A: full country results - meta-frontier and group-frontier technical efficiency and sensitivity analysis											
Country	ISO3	Income Group	CHE per capita (PPP US\$)	UHC SCI	TE (Meta)	TE (Group)	TGR	Meta-Frontier Peers (λ)	Group-Frontier Peers (λ)	Super-Efficiency (φ)	TE, Meta, Leave-One-Out (Syria Excl.)
Guyana	GUY	High Income	505	73	0.6917	1.0000	0.6917	SYR (0.479), CAN (0.521)	Guyana (1.000)	—	0.7131
Oman	OMN	High Income	732	73	0.6590	0.7152	0.9215	SYR (0.408), CAN (0.592)	Brunei (0.997), Guyana (0.003)	—	0.6755
Brunei	BRN	High Income	733	84	0.9223	1.0000	0.9223	SYR (0.408), CAN (0.592)	Brunei (1.000)	1.1616	0.9453
Seychelles	SYC	High Income	766	80	0.8054	0.8714	0.9243	SYR (0.399), CAN (0.601)	Canada (0.021), Brunei (0.979)	—	0.8250
Antigua and Barbuda	ATG	High Income	841	81	0.8214	0.8846	0.9285	SYR (0.381), CAN (0.619)	Canada (0.064), Brunei (0.936)	—	0.8402
Russia	RUS	High Income	1,003	81	0.8037	0.8585	0.9363	SYR (0.348), CAN (0.652)	Canada (0.147), Brunei (0.853)	—	0.8201
Romania	ROU	High Income	1,051	77	0.7073	0.7538	0.9382	SYR (0.339), CAN (0.661)	Canada (0.169), Brunei (0.831)	—	0.7212
Bahrain	BHR	High Income	1,176	78	0.7188	0.7623	0.9429	SYR (0.317), CAN (0.683)	Canada (0.222), Brunei (0.778)	—	0.7319
Bulgaria	BGR	High Income	1,258	73	0.6166	0.6520	0.9457	SYR (0.304), CAN (0.696)	Canada (0.253), Brunei (0.747)	—	0.6273
Trinidad and Tobago	TTO	High Income	1,276	75	0.6518	0.6888	0.9463	SYR (0.302), CAN (0.698)	Canada (0.260), Brunei (0.740)	—	0.6629
Barbados	BRB	High Income	1,286	82	0.8055	0.8509	0.9466	SYR (0.3), CAN (0.7)	Canada (0.264), Brunei (0.736)	—	0.8192
Saint Kitts and Nevis	KNA	High Income	1,295	80	0.7553	0.7977	0.9469	SYR (0.299), CAN (0.701)	Canada (0.267), Brunei (0.733)	—	0.7681
Hungary	HUN	High Income	1,420	80	0.7472	0.7860	0.9505	SYR (0.281), CAN (0.719)	Canada (0.310), Brunei (0.690)	—	0.7589
Croatia	HRV	High Income	1,548	76	0.6559	0.6876	0.9539	SYR (0.265), CAN (0.735)	Canada (0.350), Brunei (0.650)	—	0.6655
Panama	PAN	High Income	1,558	82	0.7875	0.8254	0.9542	SYR (0.263), CAN (0.737)	Canada (0.354), Brunei (0.646)	—	0.7990
Poland	POL	High Income	1,578	82	0.7864	0.8237	0.9546	SYR (0.261), CAN (0.739)	Canada (0.359), Brunei (0.641)	—	0.7977
Latvia	LVA	High Income	1,645	77	0.6707	0.7014	0.9562	SYR (0.253), CAN (0.747)	Canada (0.379), Brunei (0.621)	—	0.6801
Kuwait	KWT	High Income	1,679	84	0.8344	0.8719	0.9570	SYR (0.249), CAN (0.751)	Canada (0.389), Brunei (0.611)	—	0.8458

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Palau	PLW	High Income	1,684	75	0.6310	0.6592	0.9571	SYR (0.249), CAN (0.751)	Canada (0.390), Brunei (0.610)	—	0.6396
Chile	CHL	High Income	1,737	84	0.8311	0.8673	0.9583	SYR (0.243), CAN (0.757)	Canada (0.404), Brunei (0.596)	—	0.8422
Qatar	QAT	High Income	1,804	84	0.8276	0.8623	0.9597	SYR (0.235), CAN (0.765)	Canada (0.422), Brunei (0.578)	—	0.8381
Slovakia	SVK	High Income	1,813	78	0.6833	0.7119	0.9599	SYR (0.235), CAN (0.765)	Canada (0.425), Brunei (0.575)	—	0.6920
Saudi Arabia	SAU	High Income	1,825	83	0.7991	0.8323	0.9601	SYR (0.233), CAN (0.767)	Canada (0.428), Brunei (0.572)	—	0.8092
Greece	GRC	High Income	1,963	77	0.6574	0.6827	0.9628	SYR (0.219), CAN (0.781)	Canada (0.462), Brunei (0.538)	—	0.6651
Lithuania	LTU	High Income	2,044	78	0.6741	0.6991	0.9643	SYR (0.212), CAN (0.788)	Canada (0.481), Brunei (0.519)	—	0.6818
Uruguay	URY	High Income	2,076	85	0.8432	0.8739	0.9649	SYR (0.209), CAN (0.791)	Canada (0.488), Brunei (0.512)	—	0.8526
Estonia	EST	High Income	2,258	79	0.6871	0.7100	0.9679	SYR (0.193), CAN (0.807)	Canada (0.527), Brunei (0.473)	—	0.6941
Bahamas	BHS	High Income	2,262	80	0.7085	0.7320	0.9679	SYR (0.192), CAN (0.808)	Canada (0.528), Brunei (0.472)	—	0.7157
Nauru	NRU	High Income	2,292	62	0.4253	0.4392	0.9684	SYR (0.19), CAN (0.81)	Canada (0.534), Brunei (0.466)	—	0.4296
United Arab Emirates	ARE	High Income	2,402	84	0.8014	0.8261	0.9701	SYR (0.181), CAN (0.819)	Canada (0.556), Brunei (0.444)	—	0.8090
Czechia	CZE	High Income	2,671	83	0.7659	0.7866	0.9737	SYR (0.16), CAN (0.84)	Canada (0.606), Brunei (0.394)	—	0.7723
Portugal	PRT	High Income	2,762	83	0.7631	0.7828	0.9749	SYR (0.154), CAN (0.846)	Canada (0.622), Brunei (0.378)	—	0.7692
Cyprus	CYP	High Income	2,899	76	0.6114	0.6261	0.9765	SYR (0.145), CAN (0.855)	Canada (0.645), Brunei (0.355)	—	0.6159
Slovenia	SVN	High Income	3,038	84	0.7811	0.7987	0.9781	SYR (0.136), CAN (0.864)	Canada (0.667), Brunei (0.333)	—	0.7865
South Korea	KOR	High Income	3,044	88	0.9036	0.9238	0.9781	SYR (0.136), CAN (0.864)	Canada (0.667), Brunei (0.333)	—	0.9098
Spain	ESP	High Income	3,107	84	0.7792	0.7961	0.9788	SYR (0.132), CAN (0.868)	Canada (0.677), Brunei (0.323)	—	0.7845
Italy	ITA	High Income	3,283	82	0.7249	0.7392	0.9806	SYR (0.121), CAN (0.879)	Canada (0.703), Brunei (0.297)	—	0.7293

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Andorra	AND	High Income	3,605	75	0.5802	0.5899	0.9836	SYR (0.103), CAN (0.897)	Canada (0.747), Brunei (0.253)	—	0.5832
Malta	MLT	High Income	3,623	82	0.7173	0.7291	0.9838	SYR (0.102), CAN (0.898)	Canada (0.749), Brunei (0.251)	—	0.7210
Japan	JPN	High Income	3,638	86	0.8221	0.8355	0.9839	SYR (0.101), CAN (0.899)	Canada (0.751), Brunei (0.249)	—	0.8262
Singapore	SGP	High Income	3,922	88	0.8796	0.8918	0.9863	SYR (0.087), CAN (0.913)	Canada (0.786), Brunei (0.214)	—	0.8834
San Marino	SMR	High Income	3,924	74	0.5588	0.5665	0.9863	SYR (0.087), CAN (0.913)	Canada (0.787), Brunei (0.213)	—	0.5612
Israel	ISR	High Income	3,928	85	0.7869	0.7977	0.9864	SYR (0.087), CAN (0.913)	Canada (0.787), Brunei (0.213)	—	0.7902
New Zealand	NZL	High Income	4,997	89	0.8930	0.8986	0.9937	SYR (0.041), CAN (0.959)	Canada (0.900), Brunei (0.100)	—	0.8948
France	FRA	High Income	5,149	82	0.6916	0.6954	0.9946	SYR (0.035), CAN (0.965)	Canada (0.914), Brunei (0.086)	—	0.6928
United Kingdom	GBR	High Income	5,407	88	0.8510	0.8543	0.9961	SYR (0.026), CAN (0.974)	Canada (0.937), Brunei (0.063)	—	0.8520
Finland	FIN	High Income	5,515	86	0.7875	0.7901	0.9967	SYR (0.022), CAN (0.978)	Canada (0.946), Brunei (0.054)	—	0.7883
Belgium	BEL	High Income	5,931	86	0.7817	0.7827	0.9988	SYR (0.008), CAN (0.992)	Canada (0.980), Brunei (0.020)	—	0.7820
Canada	CAN	High Income	6,187	92	1.0000	1.0000	1.0000	CAN (1)	Canada (1.000)	1.1085	1.0000
Sweden	SWE	High Income	6,206	85	0.7511	0.7511	1.0000	CAN (1)	Canada (1.000)	—	0.7511
Austria	AUT	High Income	6,268	84	0.7256	0.7256	1.0000	CAN (1)	Canada (1.000)	—	0.7256
Netherlands	NLD	High Income	6,372	85	0.7511	0.7511	1.0000	CAN (1)	Canada (1.000)	—	0.7511
Germany	DEU	High Income	6,395	87	0.8078	0.8078	1.0000	CAN (1)	Canada (1.000)	—	0.8078
Denmark	DNK	High Income	6,511	85	0.7511	0.7511	1.0000	CAN (1)	Canada (1.000)	—	0.7511
Ireland	IRL	High Income	6,878	82	0.6789	0.6789	1.0000	CAN (1)	Canada (1.000)	—	0.6789
Australia	AUS	High Income	6,980	89	0.8739	0.8739	1.0000	CAN (1)	Canada (1.000)	—	0.8739
Iceland	ISL	High Income	7,065	90	0.9117	0.9117	1.0000	CAN (1)	Canada (1.000)	—	0.9117
Luxembourg	LUX	High Income	7,511	83	0.7016	0.7016	1.0000	CAN (1)	Canada (1.000)	—	0.7016
Monaco	MCO	High Income	8,004	85	0.7511	0.7511	1.0000	CAN (1)	Canada (1.000)	—	0.7511
Norway	NOR	High Income	8,296	89	0.8739	0.8739	1.0000	CAN (1)	Canada (1.000)	—	0.8739
Switzerland	CHE	High Income	11,784	87	0.8078	0.8078	1.0000	CAN (1)	Canada (1.000)	—	0.8078
United States	USA	High Income	13,473	88	0.8395	0.8395	1.0000	CAN (1)	Canada (1.000)	—	0.8395
Madagascar	MDG	Low Income	17	33	1.0000	1.0000	1.0000	MDG (1)	Madagascar (1.000)	—	1.0000
Sudan	SDN	Low Income	21	48	0.9557	0.9961	0.9594	MDG (0.543), LAO (0.457)	Madagascar (0.681), Syria (0.319)	—	0.9557

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Somalia	SOM	Low Income	22	30	0.4777	0.5004	0.9546	MDG (0.443), LAO (0.557)	Madagascar (0.611), Syria (0.389)	—	0.4777
DR Congo	COD	Low Income	23	41	0.6542	0.6881	0.9507	MDG (0.347), LAO (0.653)	Madagascar (0.544), Syria (0.456)	—	0.6542
Gambia	GMB	Low Income	26	53	0.7775	0.8249	0.9425	MDG (0.081), LAO (0.919)	Madagascar (0.359), Syria (0.641)	—	0.7775
Niger	NER	Low Income	26	39	0.5090	0.5401	0.9425	MDG (0.081), LAO (0.919)	Madagascar (0.359), Syria (0.641)	—	0.5090
Burundi	BDI	Low Income	28	48	0.6199	0.6507	0.9528	SYR (0.181), LAO (0.819)	Madagascar (0.248), Syria (0.752)	—	0.6337
Eritrea	ERI	Low Income	28	40	0.4843	0.5083	0.9528	SYR (0.181), LAO (0.819)	Madagascar (0.248), Syria (0.752)	—	0.4950
Syria	SYR	Low Income	33	70	1.0000	1.0000	1.0000	SYR (1)	Syria (1.000)	1.1172 (meta) / 1.5036 (group)	—
Mali	MLI	Low Income	34	41	0.4355	0.4382	0.9938	SYR (0.994), CAN (0.006)	Syria (1.000)	—	0.4858
Ethiopia	ETH	Low Income	35	33	0.3286	0.3326	0.9878	SYR (0.989), CAN (0.011)	Syria (1.000)	—	0.3661
Sierra Leone	SLE	Low Income	36	48	0.5334	0.5431	0.9821	SYR (0.983), CAN (0.017)	Syria (1.000)	—	0.5934
Malawi	MWI	Low Income	41	52	0.5831	0.6096	0.9564	SYR (0.959), CAN (0.041)	Syria (1.000)	—	0.6449
Uganda	UGA	Low Income	45	54	0.6055	0.6449	0.9389	SYR (0.941), CAN (0.059)	Syria (1.000)	—	0.6670
Chad	TCD	Low Income	47	26	0.2328	0.2501	0.9310	SYR (0.932), CAN (0.068)	Syria (1.000)	—	0.2560
Yemen	YEM	Low Income	48	43	0.4328	0.4669	0.9271	SYR (0.928), CAN (0.072)	Syria (1.000)	—	0.4755
Rwanda	RWA	Low Income	53	59	0.6736	0.7405	0.9096	SYR (0.909), CAN (0.091)	Syria (1.000)	—	0.7370
Mozambique	MOZ	Low Income	53	50	0.5236	0.5757	0.9096	SYR (0.909), CAN (0.091)	Syria (1.000)	—	0.5729
Central African Republic	CAF	Low Income	54	39	0.3721	0.4105	0.9064	SYR (0.906), CAN (0.094)	Syria (1.000)	—	0.4068
Afghanistan	AFG	Low Income	59	42	0.4033	0.4524	0.8914	SYR (0.889), CAN (0.111)	Syria (1.000)	—	0.4394
Togo	TGO	Low Income	60	42	0.4020	0.4524	0.8886	SYR (0.886), CAN (0.114)	Syria (1.000)	—	0.4377
Burkina Faso	BFA	Low Income	72	47	0.4532	0.5273	0.8594	SYR (0.851), CAN (0.149)	Syria (1.000)	—	0.4902
South Sudan	SSD	Low Income	73	41	0.3756	0.4382	0.8572	SYR (0.848), CAN (0.152)	Syria (1.000)	—	0.4061
Guinea-Bissau	GNB	Low Income	82	43	0.3920	0.4669	0.8397	SYR (0.826), CAN (0.174)	Syria (1.000)	—	0.4222
Liberia	LBR	Low Income	104	49	0.4507	0.5592	0.8060	SYR (0.781), CAN (0.219)	Syria (1.000)	—	0.4817
Laos	LAO	Lower Middle Income	27	64	1.0000	1.0000	1.0000	LAO (1)	Laos (1.000)	1.0633	1.0000
Pakistan	PAK	Lower Middle Income	30	56	0.7347	0.7814	0.9402	SYR (0.525), LAO (0.475)	Laos (0.946), Uzbekistan (0.054)	—	0.7811
Tanzania	TZA	Lower Middle Income	36	49	0.5492	0.6117	0.8978	SYR (0.983), CAN (0.017)	Laos (0.853), Uzbekistan (0.147)	—	0.6110

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Benin	BEN	Lower Middle Income	47	38	0.3696	0.4072	0.9077	SYR (0.932), CAN (0.068)	Laos (0.717), Uzbekistan (0.283)	—	0.4064
Bangladesh	BGD	Lower Middle Income	53	54	0.5866	0.6433	0.9119	SYR (0.909), CAN (0.091)	Laos (0.656), Uzbekistan (0.344)	—	0.6418
Haiti	HTI	Lower Middle Income	54	44	0.4365	0.4783	0.9125	SYR (0.906), CAN (0.094)	Laos (0.647), Uzbekistan (0.353)	—	0.4772
Myanmar	MMR	Lower Middle Income	56	52	0.5488	0.6006	0.9137	SYR (0.899), CAN (0.101)	Laos (0.628), Uzbekistan (0.372)	—	0.5991
Guinea	GIN	Lower Middle Income	59	43	0.4161	0.4546	0.9154	SYR (0.889), CAN (0.111)	Laos (0.602), Uzbekistan (0.398)	—	0.4534
Zimbabwe	ZWE	Lower Middle Income	63	59	0.6521	0.7107	0.9175	SYR (0.876), CAN (0.124)	Laos (0.568), Uzbekistan (0.432)	—	0.7088
Nigeria	NGA	Lower Middle Income	67	47	0.4591	0.4994	0.9194	SYR (0.865), CAN (0.135)	Laos (0.537), Uzbekistan (0.463)	—	0.4979
Ghana	GHA	Lower Middle Income	70	56	0.5890	0.6397	0.9207	SYR (0.856), CAN (0.144)	Laos (0.514), Uzbekistan (0.486)	—	0.6377
Senegal	SEN	Lower Middle Income	73	48	0.4656	0.5050	0.9220	SYR (0.848), CAN (0.152)	Laos (0.493), Uzbekistan (0.507)	—	0.5034
Congo	COG	Lower Middle Income	76	45	0.4226	0.4577	0.9232	SYR (0.841), CAN (0.159)	Laos (0.472), Uzbekistan (0.528)	—	0.4562
Angola	AGO	Lower Middle Income	76	44	0.4098	0.4440	0.9232	SYR (0.841), CAN (0.159)	Laos (0.472), Uzbekistan (0.528)	—	0.4425
Djibouti	DJI	Lower Middle Income	78	47	0.4467	0.4835	0.9239	SYR (0.836), CAN (0.164)	Laos (0.459), Uzbekistan (0.541)	—	0.4819
Cameroon	CMR	Lower Middle Income	79	48	0.4591	0.4966	0.9243	SYR (0.833), CAN (0.167)	Laos (0.453), Uzbekistan (0.547)	—	0.4950
Zambia	ZMB	Lower Middle Income	80	62	0.6778	0.7330	0.9247	SYR (0.831), CAN (0.169)	Laos (0.446), Uzbekistan (0.554)	—	0.7305
Nepal	NPL	Lower Middle Income	84	58	0.6025	0.6505	0.9261	SYR (0.821), CAN (0.179)	Laos (0.421), Uzbekistan (0.579)	—	0.6483
Kenya	KEN	Lower Middle Income	85	57	0.5849	0.6314	0.9264	SYR (0.819), CAN (0.181)	Laos (0.415), Uzbekistan (0.585)	—	0.6291
Tajikistan	TJK	Lower Middle Income	85	72	0.8822	0.9523	0.9264	SYR (0.819), CAN (0.181)	Laos (0.415), Uzbekistan (0.585)	—	0.9489
India	IND	Lower Middle Income	85	69	0.8117	0.8761	0.9264	SYR (0.819), CAN (0.181)	Laos (0.415), Uzbekistan (0.585)	—	0.8730
Papua New Guinea	PNG	Lower Middle Income	85	32	0.2673	0.2885	0.9264	SYR (0.819), CAN (0.181)	Laos (0.415), Uzbekistan (0.585)	—	0.2875

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Côte d'Ivoire	CIV	Lower Middle Income	88	46	0.4245	0.4577	0.9274	SYR (0.813), CAN (0.187)	Laos (0.398), Uzbekistan (0.602)	—	0.4560
Mauritania	MRT	Lower Middle Income	92	40	0.3492	0.3760	0.9286	SYR (0.804), CAN (0.196)	Laos (0.375), Uzbekistan (0.625)	—	0.3746
Kyrgyzstan	KGZ	Lower Middle Income	97	74	0.9125	0.9811	0.9301	SYR (0.794), CAN (0.206)	Laos (0.348), Uzbekistan (0.652)	—	0.9773
Comoros	COM	Lower Middle Income	102	52	0.4930	0.5293	0.9314	SYR (0.784), CAN (0.216)	Laos (0.322), Uzbekistan (0.678)	—	0.5272
Solomon Islands	SLB	Lower Middle Income	111	47	0.4204	0.4503	0.9336	SYR (0.768), CAN (0.232)	Laos (0.279), Uzbekistan (0.721)	—	0.4484
Cambodia	KHM	Lower Middle Income	115	62	0.6369	0.6815	0.9345	SYR (0.761), CAN (0.239)	Laos (0.261), Uzbekistan (0.739)	—	0.6786
Lesotho	LSO	Lower Middle Income	123	55	0.5198	0.5552	0.9362	SYR (0.749), CAN (0.251)	Laos (0.227), Uzbekistan (0.773)	—	0.5528
Sri Lanka	LKA	Lower Middle Income	134	72	0.8171	0.8709	0.9383	SYR (0.732), CAN (0.268)	Laos (0.183), Uzbekistan (0.817)	—	0.8669
Egypt	EGY	Lower Middle Income	141	71	0.7881	0.8388	0.9395	SYR (0.723), CAN (0.277)	Laos (0.157), Uzbekistan (0.843)	—	0.8349
Vanuatu	VUT	Lower Middle Income	143	52	0.4662	0.4961	0.9399	SYR (0.72), CAN (0.28)	Laos (0.150), Uzbekistan (0.850)	—	0.4938
Timor-Leste	TLS	Lower Middle Income	144	48	0.4149	0.4414	0.9400	SYR (0.718), CAN (0.282)	Laos (0.147), Uzbekistan (0.853)	—	0.4393
Bhutan	BTN	Lower Middle Income	162	69	0.7294	0.7736	0.9428	SYR (0.696), CAN (0.304)	Laos (0.087), Uzbekistan (0.913)	—	0.7698
Sao Tome and Principe	STP	Lower Middle Income	171	60	0.5658	0.5994	0.9440	SYR (0.686), CAN (0.314)	Laos (0.059), Uzbekistan (0.941)	—	0.5964
Uzbekistan	UZB	Lower Middle Income	192	79	0.9466	1.0000	0.9466	SYR (0.664), CAN (0.336)	Uzbekistan (1.000)	1.1202	0.9948
Philippines	PHL	Lower Middle Income	194	69	0.7092	0.7505	0.9450	SYR (0.662), CAN (0.338)	Uzbekistan (1.000)	—	0.7452
Vietnam	VNM	Lower Middle Income	197	71	0.7479	0.7932	0.9428	SYR (0.659), CAN (0.341)	Uzbekistan (1.000)	—	0.7855
Nicaragua	NIC	Lower Middle Income	217	70	0.7168	0.7715	0.9291	SYR (0.64), CAN (0.36)	Uzbekistan (1.000)	—	0.7511
Morocco	MAR	Lower Middle Income	232	65	0.6188	0.6727	0.9199	SYR (0.627), CAN (0.373)	Uzbekistan (1.000)	—	0.6474
Kiribati	KIR	Lower Middle Income	238	51	0.4189	0.4571	0.9164	SYR (0.622), CAN (0.378)	Uzbekistan (1.000)	—	0.4380

Supplementary materials



Honduras	HND	Lower Middle Income	249	64	0.5960	0.6547	0.9103	SYR (0.614), CAN (0.386)	Uzbekistan (1.000)	—	0.6225
Bolivia	BOL	Lower Middle Income	255	67	0.6444	0.7104	0.9071	SYR (0.609), CAN (0.391)	Uzbekistan (1.000)	—	0.6728
Lebanon	LBN	Lower Middle Income	261	67	0.6423	0.7104	0.9040	SYR (0.605), CAN (0.395)	Uzbekistan (1.000)	—	0.6702
Cabo Verde	CPV	Lower Middle Income	290	71	0.7062	0.7932	0.8903	SYR (0.585), CAN (0.415)	Uzbekistan (1.000)	—	0.7353
Samoa	WSM	Lower Middle Income	293	62	0.5512	0.6200	0.8890	SYR (0.583), CAN (0.417)	Uzbekistan (1.000)	—	0.5738
Eswatini	SWZ	Lower Middle Income	296	72	0.7241	0.8157	0.8877	SYR (0.581), CAN (0.419)	Uzbekistan (1.000)	—	0.7537
Tunisia	TUN	Lower Middle Income	318	76	0.8035	0.9145	0.8786	SYR (0.567), CAN (0.433)	Uzbekistan (1.000)	—	0.8351
Jordan	JOR	Lower Middle Income	342	74	0.7507	0.8632	0.8697	SYR (0.553), CAN (0.447)	Uzbekistan (1.000)	—	0.7792
Micronesia	FSM	Lower Middle Income	508	65	0.5541	0.6727	0.8238	SYR (0.478), CAN (0.522)	Uzbekistan (1.000)	—	0.5712
Indonesia	IDN	Upper Middle Income	132	67	0.7134	1.0000	0.7134	SYR (0.735), CAN (0.265)	Indonesia (1.000)	—	0.7572
Venezuela	VEN	Upper Middle Income	186	75	0.8450	1.0000	0.8450	SYR (0.67), CAN (0.33)	Venezuela (1.000)	1.0065	0.8887
Fiji	FJI	Upper Middle Income	213	69	0.6993	0.7864	0.8891	SYR (0.644), CAN (0.356)	Iran (0.375), Venezuela (0.625)	—	0.7331
Algeria	DZA	Upper Middle Income	233	70	0.7092	0.7731	0.9174	SYR (0.627), CAN (0.373)	Iran (0.623), Venezuela (0.377)	—	0.7420
Equatorial Guinea	GNQ	Upper Middle Income	234	49	0.3964	0.4314	0.9187	SYR (0.626), CAN (0.374)	Iran (0.635), Venezuela (0.365)	—	0.4146
Gabon	GAB	Upper Middle Income	253	48	0.3805	0.4037	0.9427	SYR (0.611), CAN (0.389)	Iran (0.851), Venezuela (0.149)	—	0.3973
Iran	IRN	Upper Middle Income	267	81	0.9588	1.0000	0.9588	SYR (0.601), CAN (0.399)	Iran (1.000)	1.0401	1.0000
Suriname	SUR	Upper Middle Income	297	74	0.7659	0.7975	0.9603	SYR (0.58), CAN (0.42)	Thailand (0.525), Iran (0.475)	—	0.7971
Azerbaijan	AZE	Upper Middle Income	300	67	0.6294	0.6553	0.9605	SYR (0.578), CAN (0.422)	Thailand (0.575), Iran (0.425)	—	0.6550
Belize	BLZ	Upper Middle Income	309	70	0.6807	0.7084	0.9609	SYR (0.573), CAN (0.427)	Thailand (0.720), Iran (0.280)	—	0.7079

Supplementary materials



Thailand	THA	Upper Middle Income	327	82	0.9616	1.0000	0.9616	SYR (0.562), CAN (0.438)	Thailand (1.000)	1.0049	0.9990
Iraq	IRQ	Upper Middle Income	333	64	0.5715	0.5945	0.9614	SYR (0.558), CAN (0.442)	Thailand (0.979), China (0.021)	—	0.5935
Tonga	TON	Upper Middle Income	358	71	0.6854	0.7138	0.9603	SYR (0.544), CAN (0.456)	Thailand (0.893), China (0.107)	—	0.7109
Mongolia	MNG	Upper Middle Income	360	70	0.6661	0.6938	0.9602	SYR (0.543), CAN (0.457)	Thailand (0.887), China (0.113)	—	0.6908
Guatemala	GTM	Upper Middle Income	392	58	0.4743	0.4946	0.9589	SYR (0.527), CAN (0.473)	Thailand (0.786), China (0.214)	—	0.4911
Namibia	NAM	Upper Middle Income	397	66	0.5888	0.6142	0.9587	SYR (0.525), CAN (0.475)	Thailand (0.771), China (0.229)	—	0.6095
Peru	PER	Upper Middle Income	446	68	0.6121	0.6396	0.9570	SYR (0.502), CAN (0.498)	Thailand (0.634), China (0.366)	—	0.6323
Malaysia	MYS	Upper Middle Income	450	80	0.8635	0.9024	0.9569	SYR (0.501), CAN (0.499)	Thailand (0.623), China (0.377)	—	0.8919
Moldova	MDA	Upper Middle Income	452	71	0.6638	0.6937	0.9568	SYR (0.5), CAN (0.5)	Thailand (0.618), China (0.382)	—	0.6856
Saint Vincent and the Grenadines	VCT	Upper Middle Income	469	80	0.8587	0.8979	0.9563	SYR (0.493), CAN (0.507)	Thailand (0.574), China (0.426)	—	0.8864
Libya	LBY	Upper Middle Income	470	71	0.6603	0.6905	0.9563	SYR (0.492), CAN (0.508)	Thailand (0.572), China (0.428)	—	0.6815
Dominican Republic	DOM	Upper Middle Income	489	73	0.6947	0.7268	0.9557	SYR (0.485), CAN (0.515)	Thailand (0.525), China (0.475)	—	0.7165
Botswana	BWA	Upper Middle Income	490	60	0.4860	0.5085	0.9557	SYR (0.485), CAN (0.515)	Thailand (0.523), China (0.477)	—	0.5013
Kazakhstan	KAZ	Upper Middle Income	490	83	0.9399	0.9835	0.9557	SYR (0.485), CAN (0.515)	Thailand (0.523), China (0.477)	—	0.9695
Dominica	DMA	Upper Middle Income	492	75	0.7349	0.7690	0.9556	SYR (0.484), CAN (0.516)	Thailand (0.518), China (0.482)	—	0.7580
El Salvador	SLV	Upper Middle Income	501	79	0.8253	0.8638	0.9554	SYR (0.48), CAN (0.52)	Thailand (0.497), China (0.503)	—	0.8510
Ecuador	ECU	Upper Middle Income	509	78	0.7990	0.8365	0.9552	SYR (0.477), CAN (0.523)	Thailand (0.478), China (0.522)	—	0.8237
Jamaica	JAM	Upper Middle Income	520	74	0.7089	0.7424	0.9549	SYR (0.473), CAN (0.527)	Thailand (0.453), China (0.547)	—	0.7305
Grenada	GRD	Upper Middle Income	526	78	0.7955	0.8333	0.9547	SYR (0.471), CAN (0.529)	Thailand (0.439), China (0.561)	—	0.8196

Supplementary materials



Paraguay	PRY	Upper Middle Income	527	79	0.8198	0.8587	0.9547	SYR (0.471), CAN (0.529)	Thailand (0.437), China (0.563)	—	0.8446
South Africa	ZAF	Upper Middle Income	537	74	0.7059	0.7395	0.9544	SYR (0.467), CAN (0.533)	Thailand (0.415), China (0.585)	—	0.7270
Türkiye	TUR	Upper Middle Income	548	77	0.7680	0.8049	0.9542	SYR (0.463), CAN (0.537)	Thailand (0.391), China (0.609)	—	0.7908
Georgia	GEO	Upper Middle Income	554	71	0.6460	0.6771	0.9540	SYR (0.461), CAN (0.539)	Thailand (0.378), China (0.622)	—	0.6650
Belarus	BLR	Upper Middle Income	558	80	0.8390	0.8796	0.9539	SYR (0.46), CAN (0.54)	Thailand (0.369), China (0.631)	—	0.8636
Colombia	COL	Upper Middle Income	571	82	0.8913	0.9346	0.9536	SYR (0.455), CAN (0.545)	Thailand (0.342), China (0.658)	—	0.9170
Turkmenistan	TKM	Upper Middle Income	581	81	0.8612	0.9033	0.9534	SYR (0.452), CAN (0.548)	Thailand (0.322), China (0.678)	—	0.8858
Albania	ALB	Upper Middle Income	591	71	0.6405	0.6720	0.9532	SYR (0.449), CAN (0.551)	Thailand (0.302), China (0.698)	—	0.6587
Mauritius	MUS	Upper Middle Income	616	75	0.7134	0.7489	0.9526	SYR (0.441), CAN (0.559)	Thailand (0.253), China (0.747)	—	0.7332
North Macedonia	MKD	Upper Middle Income	639	69	0.5999	0.6300	0.9521	SYR (0.434), CAN (0.566)	Thailand (0.209), China (0.791)	—	0.6161
Saint Lucia	LCA	Upper Middle Income	641	75	0.7098	0.7455	0.9521	SYR (0.433), CAN (0.567)	Thailand (0.206), China (0.794)	—	0.7290
Mexico	MEX	Upper Middle Income	761	79	0.7817	0.8229	0.9499	SYR (0.4), CAN (0.6)	Thailand (0.003), China (0.997)	—	0.8007
China	CHN	Upper Middle Income	763	85	0.9499	1.0000	0.9499	SYR (0.4), CAN (0.6)	China (1.000)	1.0486	0.9730
Armenia	ARM	Upper Middle Income	767	69	0.5860	0.6174	0.9493	SYR (0.399), CAN (0.601)	China (1.000)	—	0.6003
Bosnia and Herzegovina	BIH	Upper Middle Income	773	64	0.5107	0.5386	0.9483	SYR (0.397), CAN (0.603)	China (1.000)	—	0.5231
Marshall Islands	MHL	Upper Middle Income	894	66	0.5296	0.5687	0.9312	SYR (0.37), CAN (0.63)	China (1.000)	—	0.5412
Serbia	SRB	Upper Middle Income	984	73	0.6352	0.6902	0.9203	SYR (0.351), CAN (0.649)	China (1.000)	—	0.6483
Brazil	BRA	Upper Middle Income	1,010	84	0.8862	0.9660	0.9174	SYR (0.346), CAN (0.654)	China (1.000)	—	0.9042
Montenegro	MNE	Upper Middle Income	1,148	70	0.5732	0.6347	0.9032	SYR (0.322), CAN (0.678)	China (1.000)	—	0.5839

Supplementary materials



Maldives	MDV	Upper Middle Income	1,159	71	0.5887	0.6525	0.9022	SYR (0.32), CAN (0.68)	China (1.000)	—	0.5995
Costa Rica	CRI	Upper Middle Income	1,163	84	0.8712	0.9660	0.9018	SYR (0.319), CAN (0.681)	China (1.000)	—	0.8872
Argentina	ARG	Upper Middle Income	1,457	80	0.7449	0.8483	0.8781	SYR (0.276), CAN (0.724)	China (1.000)	—	0.7564
Tuvalu	TUV	Upper Middle Income	1,724	65	0.4765	0.5534	0.8611	SYR (0.244), CAN (0.756)	China (1.000)	—	0.4829

Supplementary materials



Annex 1B: countries on the frontier												
Country	ISO3	Income Group	CHE per capita (PPP US\$)	UHC SCI	TE (Meta)	TE (Group)	TGR	Times cited as a peer (Meta)	Meta-Frontier Peers (λ)	Group-Frontier Peers (λ)	Super-Efficiency (φ)	TE, Meta, Leave-One-Out (Syria Excl.)
On metafrontier (n=4)												
Canada	CAN	High Income	6,187	92	1.0000	1.0000	1.0000	177	CAN (1)	Canada (1.000)	1.1085	1.0000
Madagascar	MDG	Low Income	17	33	1.0000	1.0000	1.0000	5	MDG (1)	Madagascar (1.000)	—	1.0000
Syria	SYR	Low Income	33	70	1.0000	1.0000	1.0000	167	SYR (1)	Syria (1.000)	1.1172 (meta) / 1.5036 (group)	—
Laos	LAO	Lower Middle Income	27	64	1.0000	1.0000	1.0000	8	LAO (1)	Laos (1.000)	1.0633	1.0000
On group-specific frontier (n=12)												
Guyana	GUY	High Income	505	73	0.6917	1.0000	0.6917	1	SYR (0.479), CAN (0.521)	Guyana (1.000)	—	0.7131
Brunei	BRN	High Income	733	84	0.9223	1.0000	0.9223	46	SYR (0.408), CAN (0.592)	Brunei (1.000)	1.1616	0.9453
Canada	CAN	High Income	6,187	92	1.0000	1.0000	1.0000	58	CAN (1)	Canada (1.000)	1.1085	1.0000
Madagascar	MDG	Low Income	17	33	1.0000	1.0000	1.0000	7	MDG (1)	Madagascar (1.000)	—	1.0000
Syria	SYR	Low Income	33	70	1.0000	1.0000	1.0000	23	SYR (1)	Syria (1.000)	1.1172 (meta) / 1.5036 (group)	—
Laos	LAO	Lower Middle Income	27	64	1.0000	1.0000	1.0000	34	LAO (1)	Laos (1.000)	1.0633	1.0000
Uzbekistan	UZB	Lower Middle Income	192	79	0.9466	1.0000	0.9466	48	SYR (0.664), CAN (0.336)	Uzbekistan (1.000)	1.1202	0.9948
Indonesia	IDN	Upper Middle Income	132	67	0.7134	1.0000	0.7134	0	SYR (0.735), CAN (0.265)	Indonesia (1.000)	—	0.7572
Venezuela	VEN	Upper Middle Income	186	75	0.8450	1.0000	0.8450	4	SYR (0.67), CAN (0.33)	Venezuela (1.000)	1.0065	0.8887
Iran	IRN	Upper Middle Income	267	81	0.9588	1.0000	0.9588	7	SYR (0.601), CAN (0.399)	Iran (1.000)	1.0401	1.0000
Thailand	THA	Upper Middle Income	327	82	0.9616	1.0000	0.9616	33	SYR (0.562), CAN (0.438)	Thailand (1.000)	1.0049	0.9990
China	CHN	Upper Middle Income	763	85	0.9499	1.0000	0.9499	40	SYR (0.4), CAN (0.6)	China (1.000)	1.0486	0.9730

Supplementary materials



Annex 1C: country-level technical efficiency estimates									
Country	ISO3	CHE per capita (PPP \$)	UHC Index	Group TE	Meta TE	TGR	Group TE, Bias-Corrected [95% CI]	Meta TE, Bias-Corrected [95% CI]	TGR, Bias-Corrected
Low Income (n = 25)									
Afghanistan	AFG	59	42	0.452	0.403	0.891	0.270 [0.248, 0.292]	0.234 [0.218, 0.253]	0.869
Burkina Faso	BFA	72	47	0.527	0.453	0.859	0.325 [0.293, 0.358]	0.269 [0.247, 0.293]	0.827
Burundi	BDI	28	48	0.651	0.620	0.953	0.433 [0.374, 0.482]	0.405 [0.353, 0.449]	0.935
Central African Republic	CAF	54	39	0.411	0.372	0.906	0.241 [0.223, 0.258]	0.214 [0.200, 0.229]	0.888
Chad	TCD	47	26	0.250	0.233	0.931	0.138 [0.131, 0.143]	0.127 [0.122, 0.132]	0.922
DR Congo	COD	23	41	0.688	0.654	0.951	0.467 [0.399, 0.525]	0.436 [0.376, 0.486]	0.934
Eritrea	ERI	28	40	0.508	0.484	0.953	0.315 [0.284, 0.341]	0.296 [0.269, 0.320]	0.940
Ethiopia	ETH	35	33	0.333	0.329	0.988	0.191 [0.178, 0.200]	0.187 [0.176, 0.197]	0.981
Gambia	GMB	26	53	0.825	0.777	0.942	0.599 [0.496, 0.702]	0.550 [0.462, 0.636]	0.919
Guinea-Bissau	GNB	82	43	0.467	0.392	0.840	0.280 [0.256, 0.305]	0.227 [0.211, 0.244]	0.809
Liberia	LBR	104	49	0.559	0.451	0.806	0.349 [0.313, 0.388]	0.267 [0.246, 0.290]	0.763
Madagascar	MDG	17	33	1.000	1.000	1.000	1.000 [1.000, 1.000]	1.000 [1.000, 1.000]	1.000
Malawi	MWI	41	52	0.610	0.583	0.956	0.394 [0.345, 0.438]	0.369 [0.328, 0.412]	0.937
Mali	MLI	34	41	0.438	0.435	0.994	0.264 [0.241, 0.281]	0.260 [0.239, 0.278]	0.984
Mozambique	MOZ	53	50	0.576	0.524	0.910	0.364 [0.324, 0.404]	0.321 [0.291, 0.355]	0.883
Niger	NER	26	39	0.540	0.509	0.942	0.340 [0.302, 0.370]	0.316 [0.283, 0.341]	0.929
Rwanda	RWA	53	59	0.741	0.674	0.910	0.504 [0.432, 0.588]	0.440 [0.386, 0.508]	0.873

Supplementary materials



Sierra Leone	SLE	36	48	0.543	0.533	0.982	0.343 [0.304, 0.373]	0.332 [0.297, 0.364]	0.969
Somalia	SOM	22	30	0.500	0.478	0.955	0.310 [0.279, 0.334]	0.293 [0.265, 0.314]	0.944
South Sudan	SSD	73	41	0.438	0.376	0.857	0.260 [0.239, 0.281]	0.216 [0.202, 0.231]	0.831
Sudan	SDN	21	48	0.996	0.956	0.959	0.820 [0.630, 0.992]	0.766 [0.599, 0.915]	0.934
Syria	SYR	33	70	1.000	1.000	1.000	0.834 [0.640, 1.000]	0.810 [0.631, 1.000]	0.971
Togo	TGO	60	42	0.452	0.402	0.889	0.270 [0.248, 0.292]	0.234 [0.217, 0.252]	0.865
Uganda	UGA	45	54	0.645	0.606	0.939	0.423 [0.369, 0.476]	0.386 [0.342, 0.434]	0.914
Yemen	YEM	48	43	0.467	0.433	0.927	0.281 [0.257, 0.305]	0.256 [0.236, 0.276]	0.909
Lower Middle Income (n = 50)									
Angola	AGO	76	44	0.444	0.410	0.923	0.263 [0.242, 0.285]	0.238 [0.222, 0.257]	0.907
Bangladesh	BGD	53	54	0.643	0.587	0.912	0.420 [0.367, 0.474]	0.370 [0.330, 0.415]	0.879
Benin	BEN	47	38	0.407	0.370	0.908	0.240 [0.221, 0.256]	0.213 [0.199, 0.227]	0.887
Bhutan	BTN	162	69	0.774	0.729	0.943	0.537 [0.454, 0.631]	0.486 [0.420, 0.569]	0.906
Bolivia	BOL	255	67	0.710	0.644	0.907	0.475 [0.409, 0.551]	0.412 [0.365, 0.471]	0.867
Cabo Verde	CPV	290	71	0.793	0.706	0.890	0.553 [0.466, 0.657]	0.464 [0.404, 0.541]	0.840
Cambodia	KHM	115	62	0.682	0.637	0.935	0.450 [0.393, 0.517]	0.408 [0.362, 0.464]	0.907
Cameroon	CMR	79	48	0.497	0.459	0.924	0.301 [0.275, 0.330]	0.273 [0.251, 0.298]	0.906
Comoros	COM	102	52	0.529	0.493	0.931	0.325 [0.293, 0.360]	0.297 [0.271, 0.326]	0.912
Congo	COG	76	45	0.458	0.423	0.923	0.273 [0.250, 0.297]	0.247 [0.229, 0.268]	0.906
Côte d'Ivoire	CIV	88	46	0.458	0.424	0.927	0.273 [0.251, 0.297]	0.249 [0.230, 0.268]	0.911

Supplementary materials



Djibouti	DJI	78	47	0.483	0.447	0.924	0.291 [0.266, 0.319]	0.264 [0.244, 0.287]	0.906
Egypt	EGY	141	71	0.839	0.788	0.940	0.601 [0.500, 0.722]	0.541 [0.461, 0.645]	0.901
Eswatini	SWZ	296	72	0.816	0.724	0.888	0.575 [0.485, 0.689]	0.480 [0.419, 0.563]	0.835
Ghana	GHA	70	56	0.640	0.589	0.921	0.413 [0.364, 0.470]	0.369 [0.330, 0.417]	0.895
Guinea	GIN	59	43	0.455	0.416	0.915	0.272 [0.249, 0.294]	0.244 [0.226, 0.263]	0.896
Haiti	HTI	54	44	0.478	0.436	0.912	0.289 [0.264, 0.314]	0.258 [0.238, 0.279]	0.890
Honduras	HND	249	64	0.655	0.596	0.910	0.428 [0.374, 0.487]	0.374 [0.335, 0.423]	0.874
India	IND	85	69	0.876	0.812	0.926	0.632 [0.522, 0.780]	0.562 [0.475, 0.677]	0.889
Jordan	JOR	342	74	0.863	0.751	0.870	0.625 [0.518, 0.759]	0.505 [0.436, 0.594]	0.808
Kenya	KEN	85	57	0.631	0.585	0.926	0.406 [0.361, 0.461]	0.367 [0.330, 0.412]	0.902
Kiribati	KIR	238	51	0.457	0.419	0.916	0.273 [0.250, 0.296]	0.244 [0.227, 0.264]	0.894
Kyrgyzstan	KGZ	97	74	0.981	0.912	0.930	0.747 [0.603, 0.963]	0.663 [0.549, 0.828]	0.886
Laos	LAO	27	64	1.000	1.000	1.000	1.000 [1.000, 1.000]	0.805 [0.627, 1.000]	0.805
Lebanon	LBN	261	67	0.710	0.642	0.904	0.477 [0.411, 0.551]	0.411 [0.364, 0.470]	0.863
Lesotho	LSO	123	55	0.555	0.520	0.936	0.345 [0.310, 0.384]	0.316 [0.287, 0.349]	0.915
Mauritania	MRT	92	40	0.376	0.349	0.929	0.217 [0.202, 0.232]	0.198 [0.187, 0.211]	0.916
Micronesia	FSM	508	65	0.673	0.554	0.824	0.442 [0.386, 0.507]	0.341 [0.308, 0.381]	0.772
Morocco	MAR	232	65	0.673	0.619	0.920	0.444 [0.385, 0.507]	0.392 [0.348, 0.446]	0.883
Myanmar	MMR	56	52	0.601	0.549	0.914	0.384 [0.340, 0.429]	0.340 [0.306, 0.378]	0.885

Supplementary materials



Nepal	NPL	84	58	0.651	0.602	0.926	0.420 [0.371, 0.482]	0.379 [0.340, 0.430]	0.901
Nicaragua	NIC	217	70	0.771	0.717	0.929	0.536 [0.452, 0.628]	0.475 [0.411, 0.553]	0.886
Nigeria	NGA	67	47	0.499	0.459	0.919	0.303 [0.275, 0.333]	0.273 [0.250, 0.298]	0.899
Pakistan	PAK	30	56	0.781	0.735	0.940	0.588 [0.474, 0.641]	0.511 [0.432, 0.581]	0.868
Papua New Guinea	PNG	85	32	0.289	0.267	0.926	0.161 [0.153, 0.169]	0.147 [0.141, 0.154]	0.917
Philippines	PHL	194	69	0.750	0.709	0.945	0.515 [0.439, 0.601]	0.467 [0.407, 0.543]	0.906
Samoa	WSM	293	62	0.620	0.551	0.889	0.398 [0.351, 0.449]	0.339 [0.306, 0.378]	0.852
Sao Tome and Principe	STP	171	60	0.599	0.566	0.944	0.382 [0.338, 0.428]	0.350 [0.314, 0.391]	0.917
Senegal	SEN	73	48	0.505	0.466	0.922	0.307 [0.279, 0.338]	0.277 [0.254, 0.303]	0.903
Solomon Islands	SLB	111	47	0.450	0.420	0.934	0.268 [0.245, 0.291]	0.245 [0.227, 0.265]	0.917
Sri Lanka	LKA	134	72	0.871	0.817	0.938	0.629 [0.519, 0.771]	0.566 [0.478, 0.684]	0.899
Tajikistan	TJK	85	72	0.952	0.882	0.926	0.715 [0.580, 0.909]	0.632 [0.526, 0.787]	0.885
Tanzania	TZA	36	49	0.612	0.549	0.898	0.403 [0.350, 0.441]	0.345 [0.308, 0.379]	0.855
Timor-Leste	TLS	144	48	0.441	0.415	0.940	0.262 [0.241, 0.283]	0.242 [0.224, 0.261]	0.923
Tunisia	TUN	318	76	0.914	0.803	0.879	0.680 [0.551, 0.842]	0.554 [0.470, 0.666]	0.814
Uzbekistan	UZB	192	79	1.000	0.947	0.947	0.783 [0.615, 1.000]	0.696 [0.566, 0.881]	0.889
Vanuatu	VUT	143	52	0.496	0.466	0.940	0.301 [0.274, 0.330]	0.277 [0.255, 0.302]	0.920
Vietnam	VNM	197	71	0.793	0.748	0.943	0.558 [0.467, 0.657]	0.502 [0.432, 0.590]	0.900
Zambia	ZMB	80	62	0.733	0.678	0.925	0.495 [0.426, 0.579]	0.443 [0.388, 0.511]	0.895

Supplementary materials



Zimbabwe	ZWE	63	59	0.711	0.652	0.917	0.477 [0.412, 0.551]	0.422 [0.371, 0.484]	0.885
Upper Middle Income (n = 52)									
Albania	ALB	591	71	0.672	0.641	0.953	0.441 [0.385, 0.506]	0.410 [0.363, 0.468]	0.931
Algeria	DZA	233	70	0.773	0.709	0.917	0.546 [0.457, 0.630]	0.467 [0.407, 0.545]	0.855
Argentina	ARG	1,457	80	0.848	0.745	0.878	0.609 [0.509, 0.737]	0.502 [0.434, 0.589]	0.824
Armenia	ARM	767	69	0.617	0.586	0.949	0.396 [0.351, 0.447]	0.366 [0.329, 0.412]	0.925
Azerbaijan	AZE	300	67	0.655	0.629	0.960	0.430 [0.372, 0.487]	0.399 [0.352, 0.453]	0.928
Belarus	BLR	558	80	0.880	0.839	0.954	0.634 [0.526, 0.785]	0.586 [0.495, 0.713]	0.924
Belize	BLZ	309	70	0.708	0.681	0.961	0.478 [0.413, 0.548]	0.443 [0.390, 0.512]	0.927
Bosnia and Herzegovina	BIH	773	64	0.539	0.511	0.948	0.334 [0.300, 0.369]	0.310 [0.281, 0.341]	0.927
Botswana	BWA	490	60	0.509	0.486	0.956	0.309 [0.281, 0.341]	0.291 [0.267, 0.319]	0.941
Brazil	BRA	1,010	84	0.966	0.886	0.917	0.735 [0.591, 0.934]	0.635 [0.529, 0.785]	0.864
China	CHN	763	85	1.000	0.950	0.950	0.778 [0.617, 1.000]	0.702 [0.574, 0.896]	0.903
Colombia	COL	571	82	0.935	0.891	0.954	0.699 [0.568, 0.877]	0.643 [0.533, 0.794]	0.920
Costa Rica	CRI	1,163	84	0.966	0.871	0.902	0.738 [0.592, 0.934]	0.622 [0.520, 0.766]	0.844
Dominica	DMA	492	75	0.769	0.735	0.956	0.526 [0.448, 0.625]	0.490 [0.423, 0.577]	0.931
Dominican Republic	DOM	489	73	0.727	0.695	0.956	0.488 [0.420, 0.571]	0.455 [0.397, 0.529]	0.933
Ecuador	ECU	509	78	0.837	0.799	0.955	0.591 [0.497, 0.719]	0.549 [0.468, 0.655]	0.928
El Salvador	SLV	501	79	0.864	0.825	0.955	0.620 [0.517, 0.760]	0.574 [0.488, 0.695]	0.927
Equatorial Guinea	GNQ	234	49	0.431	0.396	0.919	0.258 [0.236, 0.275]	0.229 [0.214, 0.246]	0.888

Supplementary materials



Fiji	FJI	213	69	0.786	0.699	0.889	0.564 [0.470, 0.648]	0.459 [0.401, 0.534]	0.813
Gabon	GAB	253	48	0.404	0.381	0.943	0.238 [0.220, 0.253]	0.219 [0.205, 0.234]	0.918
Georgia	GEO	554	71	0.677	0.646	0.954	0.443 [0.388, 0.512]	0.414 [0.367, 0.473]	0.933
Grenada	GRD	526	78	0.833	0.796	0.955	0.590 [0.493, 0.714]	0.547 [0.464, 0.656]	0.927
Guatemala	GTM	392	58	0.495	0.474	0.959	0.300 [0.273, 0.329]	0.283 [0.260, 0.310]	0.943
Indonesia	IDN	132	67	1.000	0.713	0.713	1.000 [1.000, 1.000]	0.472 [0.412, 0.551]	0.472
Iran	IRN	267	81	1.000	0.959	0.959	0.805 [0.626, 1.000]	0.713 [0.579, 0.912]	0.886
Iraq	IRQ	333	64	0.594	0.571	0.961	0.379 [0.336, 0.423]	0.355 [0.319, 0.397]	0.937
Jamaica	JAM	520	74	0.742	0.709	0.955	0.502 [0.432, 0.590]	0.467 [0.408, 0.543]	0.931
Kazakhstan	KAZ	490	83	0.983	0.940	0.956	0.753 [0.604, 0.967]	0.693 [0.568, 0.871]	0.921
Libya	LBY	470	71	0.690	0.660	0.956	0.455 [0.397, 0.527]	0.425 [0.376, 0.489]	0.935
Malaysia	MYS	450	80	0.902	0.864	0.957	0.663 [0.547, 0.822]	0.613 [0.516, 0.751]	0.925
Maldives	MDV	1,159	71	0.653	0.589	0.902	0.425 [0.374, 0.484]	0.369 [0.332, 0.414]	0.868
Marshall Islands	MHL	894	66	0.569	0.530	0.931	0.357 [0.320, 0.397]	0.324 [0.294, 0.357]	0.906
Mauritius	MUS	616	75	0.749	0.713	0.953	0.509 [0.434, 0.599]	0.472 [0.408, 0.549]	0.926
Mexico	MEX	761	79	0.823	0.782	0.950	0.585 [0.488, 0.699]	0.534 [0.456, 0.636]	0.914
Moldova	MDA	452	71	0.694	0.664	0.957	0.461 [0.400, 0.531]	0.431 [0.378, 0.492]	0.934
Mongolia	MNG	360	70	0.694	0.666	0.960	0.461 [0.400, 0.531]	0.430 [0.379, 0.496]	0.933
Montenegro	MNE	1,148	70	0.635	0.573	0.903	0.410 [0.361, 0.465]	0.357 [0.320, 0.401]	0.870

Supplementary materials



Namibia	NAM	397	66	0.614	0.589	0.959	0.393 [0.347, 0.443]	0.369 [0.329, 0.415]	0.938
North Macedonia	MKD	639	69	0.630	0.600	0.952	0.406 [0.358, 0.460]	0.377 [0.338, 0.425]	0.930
Paraguay	PRY	527	79	0.859	0.820	0.955	0.612 [0.513, 0.752]	0.567 [0.483, 0.685]	0.926
Peru	PER	446	68	0.640	0.612	0.957	0.412 [0.364, 0.470]	0.386 [0.346, 0.437]	0.937
Saint Lucia	LCA	641	75	0.745	0.710	0.952	0.506 [0.434, 0.594]	0.468 [0.408, 0.544]	0.925
Saint Vincent and the Grenadines	VCT	469	80	0.898	0.859	0.956	0.654 [0.541, 0.815]	0.606 [0.510, 0.746]	0.926
Serbia	SRB	984	73	0.690	0.635	0.920	0.458 [0.398, 0.527]	0.406 [0.360, 0.463]	0.887
South Africa	ZAF	537	74	0.740	0.706	0.954	0.499 [0.429, 0.587]	0.464 [0.405, 0.540]	0.931
Suriname	SUR	297	74	0.798	0.766	0.960	0.566 [0.474, 0.663]	0.519 [0.447, 0.616]	0.917
Thailand	THA	327	82	1.000	0.962	0.962	0.784 [0.621, 1.000]	0.715 [0.584, 0.912]	0.911
Tonga	TON	358	71	0.714	0.685	0.960	0.480 [0.412, 0.555]	0.447 [0.391, 0.517]	0.932
Turkmenistan	TKM	581	81	0.903	0.861	0.953	0.661 [0.544, 0.824]	0.609 [0.511, 0.744]	0.921
Tuvalu	TUV	1,724	65	0.553	0.477	0.861	0.345 [0.310, 0.383]	0.285 [0.261, 0.312]	0.827
Türkiye	TUR	548	77	0.805	0.768	0.954	0.562 [0.477, 0.674]	0.521 [0.450, 0.617]	0.927
Venezuela	VEN	186	75	1.000	0.845	0.845	0.831 [0.635, 1.000]	0.591 [0.499, 0.725]	0.712
High Income (n = 62)									
Andorra	AND	3,605	75	0.590	0.580	0.984	0.372 [0.331, 0.418]	0.364 [0.325, 0.409]	0.978
Antigua and Barbuda	ATG	841	81	0.885	0.821	0.929	0.669 [0.540, 0.793]	0.569 [0.485, 0.693]	0.852
Australia	AUS	6,980	89	0.874	0.874	1.000	0.635 [0.525, 0.776]	0.634 [0.525, 0.776]	0.998
Austria	AUT	6,268	84	0.726	0.726	1.000	0.490 [0.422, 0.569]	0.489 [0.422, 0.569]	0.998

Supplementary materials



Bahamas	BHS	2,262	80	0.732	0.708	0.968	0.491 [0.424, 0.577]	0.469 [0.408, 0.548]	0.954
Bahrain	BHR	1,176	78	0.762	0.719	0.943	0.525 [0.447, 0.616]	0.476 [0.415, 0.557]	0.907
Barbados	BRB	1,286	82	0.851	0.805	0.947	0.612 [0.505, 0.740]	0.557 [0.470, 0.670]	0.910
Belgium	BEL	5,931	86	0.783	0.782	0.999	0.542 [0.459, 0.643]	0.540 [0.459, 0.642]	0.996
Brunei	BRN	733	84	1.000	0.922	0.922	0.838 [0.636, 1.000]	0.672 [0.553, 0.842]	0.801
Bulgaria	BGR	1,258	73	0.652	0.617	0.946	0.426 [0.373, 0.484]	0.391 [0.348, 0.443]	0.919
Canada	CAN	6,187	92	1.000	1.000	1.000	0.777 [0.616, 1.000]	0.774 [0.616, 1.000]	0.997
Chile	CHL	1,737	84	0.867	0.831	0.958	0.622 [0.520, 0.766]	0.581 [0.493, 0.710]	0.934
Croatia	HRV	1,548	76	0.688	0.656	0.954	0.455 [0.395, 0.524]	0.424 [0.373, 0.486]	0.933
Cyprus	CYP	2,899	76	0.626	0.611	0.976	0.401 [0.354, 0.456]	0.388 [0.345, 0.440]	0.968
Czechia	CZE	2,671	83	0.787	0.766	0.974	0.542 [0.461, 0.648]	0.521 [0.447, 0.621]	0.961
Denmark	DNK	6,511	85	0.751	0.751	1.000	0.514 [0.438, 0.601]	0.513 [0.438, 0.601]	0.998
Estonia	EST	2,258	79	0.710	0.687	0.968	0.472 [0.409, 0.550]	0.451 [0.394, 0.521]	0.954
Finland	FIN	5,515	86	0.790	0.787	0.997	0.551 [0.464, 0.653]	0.547 [0.462, 0.649]	0.994
France	FRA	5,149	82	0.695	0.692	0.995	0.462 [0.401, 0.533]	0.458 [0.398, 0.529]	0.991
Germany	DEU	6,395	87	0.808	0.808	1.000	0.568 [0.476, 0.678]	0.567 [0.476, 0.678]	0.998
Greece	GRC	1,963	77	0.683	0.657	0.963	0.447 [0.392, 0.518]	0.424 [0.375, 0.490]	0.948
Guyana	GUY	505	73	1.000	0.692	0.692	1.000 [1.000, 1.000]	0.454 [0.397, 0.524]	0.454
Hungary	HUN	1,420	80	0.786	0.747	0.951	0.546 [0.463, 0.648]	0.503 [0.434, 0.595]	0.922

Supplementary materials



Iceland	ISL	7,065	90	0.912	0.912	1.000	0.677 [0.551, 0.838]	0.675 [0.551, 0.838]	0.998
Ireland	IRL	6,878	82	0.679	0.679	1.000	0.449 [0.390, 0.514]	0.448 [0.390, 0.514]	0.999
Israel	ISR	3,928	85	0.798	0.787	0.986	0.554 [0.469, 0.664]	0.543 [0.461, 0.649]	0.979
Italy	ITA	3,283	82	0.739	0.725	0.981	0.498 [0.431, 0.586]	0.484 [0.421, 0.568]	0.972
Japan	JPN	3,638	86	0.836	0.822	0.984	0.589 [0.493, 0.717]	0.575 [0.483, 0.698]	0.976
Kuwait	KWT	1,679	84	0.872	0.834	0.957	0.630 [0.519, 0.773]	0.587 [0.491, 0.712]	0.931
Latvia	LVA	1,645	77	0.701	0.671	0.956	0.464 [0.402, 0.540]	0.434 [0.381, 0.502]	0.937
Lithuania	LTU	2,044	78	0.699	0.674	0.964	0.462 [0.401, 0.537]	0.439 [0.384, 0.506]	0.950
Luxembourg	LUX	7,511	83	0.702	0.702	1.000	0.467 [0.403, 0.540]	0.466 [0.403, 0.540]	0.999
Malta	MLT	3,623	82	0.729	0.717	0.984	0.491 [0.423, 0.574]	0.479 [0.415, 0.559]	0.977
Monaco	MCO	8,004	85	0.751	0.751	1.000	0.513 [0.438, 0.601]	0.512 [0.438, 0.601]	0.999
Nauru	NRU	2,292	62	0.439	0.425	0.968	0.259 [0.239, 0.281]	0.249 [0.230, 0.270]	0.961
Netherlands	NLD	6,372	85	0.751	0.751	1.000	0.514 [0.439, 0.601]	0.513 [0.439, 0.601]	0.998
New Zealand	NZL	4,997	89	0.899	0.893	0.994	0.659 [0.535, 0.816]	0.652 [0.531, 0.807]	0.989
Norway	NOR	8,296	89	0.874	0.874	1.000	0.634 [0.521, 0.776]	0.633 [0.520, 0.776]	0.998
Oman	OMN	732	73	0.715	0.659	0.922	0.506 [0.426, 0.557]	0.427 [0.376, 0.487]	0.843
Palau	PLW	1,684	75	0.659	0.631	0.957	0.428 [0.376, 0.492]	0.402 [0.357, 0.459]	0.940
Panama	PAN	1,558	82	0.825	0.788	0.954	0.582 [0.491, 0.703]	0.540 [0.462, 0.644]	0.928
Poland	POL	1,578	82	0.824	0.786	0.955	0.580 [0.489, 0.700]	0.538 [0.461, 0.643]	0.929

Supplementary materials



Portugal	PRT	2,762	83	0.783	0.763	0.975	0.540 [0.460, 0.643]	0.520 [0.445, 0.616]	0.963
Qatar	QAT	1,804	84	0.862	0.828	0.960	0.614 [0.509, 0.758]	0.575 [0.483, 0.700]	0.937
Romania	ROU	1,051	77	0.754	0.707	0.938	0.521 [0.442, 0.605]	0.467 [0.407, 0.542]	0.895
Russia	RUS	1,003	81	0.858	0.804	0.936	0.628 [0.516, 0.752]	0.553 [0.471, 0.666]	0.881
Saint Kitts and Nevis	KNA	1,295	80	0.798	0.755	0.947	0.557 [0.472, 0.663]	0.509 [0.440, 0.601]	0.914
San Marino	SMR	3,924	74	0.567	0.559	0.986	0.353 [0.317, 0.395]	0.347 [0.312, 0.388]	0.982
Saudi Arabia	SAU	1,825	83	0.832	0.799	0.960	0.586 [0.492, 0.713]	0.550 [0.468, 0.661]	0.939
Seychelles	SYC	766	80	0.871	0.805	0.924	0.664 [0.534, 0.772]	0.554 [0.472, 0.670]	0.835
Singapore	SGP	3,922	88	0.892	0.880	0.986	0.652 [0.538, 0.805]	0.637 [0.529, 0.785]	0.978
Slovakia	SVK	1,813	78	0.712	0.683	0.960	0.473 [0.411, 0.553]	0.446 [0.392, 0.516]	0.942
Slovenia	SVN	3,038	84	0.799	0.781	0.978	0.554 [0.472, 0.665]	0.536 [0.459, 0.641]	0.968
South Korea	KOR	3,044	88	0.924	0.904	0.978	0.685 [0.557, 0.858]	0.661 [0.541, 0.824]	0.965
Spain	ESP	3,107	84	0.796	0.779	0.979	0.551 [0.467, 0.661]	0.534 [0.455, 0.638]	0.969
Sweden	SWE	6,206	85	0.751	0.751	1.000	0.513 [0.440, 0.601]	0.512 [0.439, 0.601]	0.998
Switzerland	CHE	11,784	87	0.808	0.808	1.000	0.566 [0.475, 0.678]	0.565 [0.474, 0.678]	0.999
Trinidad and Tobago	TTO	1,276	75	0.689	0.652	0.946	0.456 [0.395, 0.525]	0.419 [0.369, 0.479]	0.919
United Arab Emirates	ARE	2,402	84	0.826	0.801	0.970	0.582 [0.490, 0.704]	0.555 [0.472, 0.664]	0.955
United Kingdom	GBR	5,407	88	0.854	0.851	0.996	0.612 [0.510, 0.746]	0.607 [0.508, 0.741]	0.992
United States	USA	13,473	88	0.839	0.839	1.000	0.597 [0.497, 0.723]	0.597 [0.495, 0.723]	0.999

Supplementary materials



Uruguay	URY	2,076	85	0.874	0.843	0.965	0.629 [0.525, 0.776]	0.595 [0.500, 0.726]	0.945
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Notes: CHE per capita (PPP \$) = current health expenditure per capita, purchasing power parity, international \$. UHC Index = Universal Health Coverage service coverage index (0–100 scale).
Group TE = technical efficiency scores relative to the income-group-specific frontier; Meta TE = technical efficiency scores relative to the pooled meta-frontier; TGR (technology gap ratio) = Meta TE / Group TE, indicating the gap between a group frontier and the meta-frontier.
Estimates of group-specific and meta-frontier technical efficiency (TE) scores, technology gap ratios (TGR), and bootstrap bias-corrected estimates with 95% confidence intervals (CI), by country and World Bank income group (n = 189). Countries are ordered alphabetically within income group.

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Annex 1D: country-level potential gains in universal health coverage service coverage (original service coverage index scale)											
Country	Iso3	Income Group	Sci (Observed)	Group Frontier - Original		Group Frontier - Bias-Corrected		Meta-Frontier - Original		Meta-Frontier - Bias-Corrected	
				Potential Gain (Points)	Potential Gain (%)	Potential Gain (Points)	Potential Gain (%)	Potential Gain (Points)	Potential Gain (%)	Potential Gain (Points)	Potential Gain (%)
Afghanistan	AFG	Low Income	42	28.0	66.7	44.7	106.5	32.1	76.4	48.2	114.8
Burkina Faso	BFA	Low Income	47	23.0	48.9	38.8	82.6	28.4	60.4	43.6	92.7
Burundi	BDI	Low Income	48	15.4	32.1	29.9	62.3	17.2	35.8	32.1	66.8
Central African Republic	CAF	Low Income	39	31.0	79.5	48.1	123.4	34.5	88.5	51.1	130.9
Chad	TCD	Low Income	26	44.0	169.2	62.8	241.5	46.6	179.1	64.7	248.8
DR Congo	COD	Low Income	41	12.5	30.6	26.7	65.2	14.4	35.0	29.2	71.2
Eritrea	ERI	Low Income	40	23.4	58.5	40.2	100.6	25.2	62.9	42.2	105.4
Ethiopia	ETH	Low Income	33	37.0	112.1	54.7	165.9	37.4	113.5	55.2	167.4
Gambia	GMB	Low Income	53	7.0	13.1	18.6	35.2	9.1	17.2	21.6	40.8
Guinea-Bissau	GNB	Low Income	43	27.0	62.8	43.6	101.3	33.2	77.1	48.6	113.1
Liberia	LBR	Low Income	49	21.0	42.9	36.4	74.4	28.6	58.3	43.0	87.7
Madagascar	MDG	Low Income	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malawi	MWI	Low Income	52	18.0	34.6	32.5	62.4	19.6	37.7	34.3	65.9
Mali	MLI	Low Income	41	29.0	70.7	45.4	110.7	29.2	71.3	45.8	111.8
Mozambique	MOZ	Low Income	50	20.0	40.0	35.1	70.3	23.4	46.8	38.5	76.9
Niger	NER	Low Income	39	21.0	53.7	37.6	96.5	23.1	59.3	40.1	102.8
Rwanda	RWA	Low Income	59	11.0	18.6	24.0	40.6	14.4	24.4	27.8	47.2
Sierra Leone	SLE	Low Income	48	22.0	45.8	37.1	77.3	22.7	47.2	38.0	79.2
Somalia	SOM	Low Income	30	21.0	69.9	38.3	127.7	22.6	75.4	40.4	134.7
South Sudan	SSD	Low Income	41	29.0	70.7	45.9	112.0	34.5	84.0	50.3	122.8
Sudan	SDN	Low Income	48	0.1	0.3	6.9	14.5	1.6	3.2	9.4	19.6
Syria	SYR	Low Income	70	0.0	0.0	6.4	9.1	0.0	0.0	7.4	10.6
Togo	TGO	Low Income	42	28.0	66.7	44.7	106.4	32.2	76.7	48.3	114.9
Uganda	UGA	Low Income	54	16.0	29.6	30.1	55.7	18.3	33.8	32.6	60.4
Yemen	YEM	Low Income	43	27.0	62.8	43.4	101.0	29.7	69.1	45.9	106.7
Angola	AGO	Lower Middle Income	44	28.9	65.7	45.0	102.2	31.7	72.0	47.2	107.3
Bangladesh	BGD	Lower Middle Income	54	16.1	29.8	30.2	56.0	19.4	35.9	33.8	62.5
Benin	BEN	Lower Middle Income	38	31.1	81.8	48.4	127.4	34.6	91.0	51.5	135.4
Bhutan	BTN	Lower Middle Income	69	9.0	13.0	19.7	28.6	10.9	15.8	22.0	31.9
Bolivia	BOL	Lower Middle Income	67	12.0	17.9	23.3	34.8	15.1	22.5	26.2	39.1
Cabo Verde	CPV	Lower Middle Income	71	8.0	11.3	18.4	25.9	11.7	16.4	22.0	31.1
Cambodia	KHM	Lower Middle Income	62	13.8	22.3	26.3	42.5	16.1	26.0	28.6	46.2
Cameroon	CMR	Lower Middle Income	48	25.2	52.5	40.6	84.5	27.9	58.2	42.9	89.4
Comoros	COM	Lower Middle Income	52	23.0	44.3	37.5	72.2	25.4	48.9	39.6	76.1
Congo	COG	Lower Middle Income	45	27.9	62.0	43.8	97.4	30.7	68.2	46.1	102.4
Côte d'Ivoire	CIV	Lower Middle Income	46	28.0	60.8	43.6	94.7	30.6	66.5	45.6	99.2

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Djibouti	DJI	Lower Middle Income	47	26.1	55.5	41.7	88.7	28.9	61.4	44.0	93.6
Egypt	EGY	Lower Middle Income	71	6.1	8.6	16.3	22.9	8.2	11.6	18.9	26.6
Eswatini	SWZ	Lower Middle Income	72	7.0	9.7	17.1	23.7	10.8	14.9	20.9	29.1
Ghana	GHA	Lower Middle Income	56	16.3	29.1	30.3	54.2	19.2	34.3	33.2	59.3
Guinea	GIN	Lower Middle Income	43	28.0	65.0	44.3	103.0	31.1	72.3	47.0	109.3
Haiti	HTI	Lower Middle Income	44	26.2	59.6	42.5	96.7	29.5	67.1	45.5	103.4
Honduras	HND	Lower Middle Income	64	15.0	23.4	26.8	41.9	18.0	28.1	29.5	46.1
India	IND	Lower Middle Income	69	4.7	6.9	15.3	22.2	7.4	10.7	18.5	26.9
Jordan	JOR	Lower Middle Income	74	5.0	6.8	14.4	19.5	9.4	12.7	19.1	25.7
Kenya	KEN	Lower Middle Income	57	16.7	29.4	30.5	53.5	19.4	34.0	33.0	57.9
Kiribati	KIR	Lower Middle Income	51	28.0	54.9	41.7	81.7	30.8	60.4	43.6	85.6
Kyrgyzstan	KGZ	Lower Middle Income	74	0.7	0.9	9.5	12.9	3.2	4.3	12.9	17.4
Laos	LAO	Lower Middle Income	64	0.0	0.0	0.0	0.0	0.0	0.0	7.9	12.4
Lebanon	LBN	Lower Middle Income	67	12.0	17.9	23.2	34.6	15.2	22.7	26.2	39.2
Lesotho	LSO	Lower Middle Income	55	21.3	38.7	35.1	63.8	23.5	42.7	37.0	67.3
Mauritania	MRT	Lower Middle Income	40	34.3	85.7	50.5	126.4	36.8	92.1	52.4	131.0
Micronesia	FSM	Lower Middle Income	65	14.0	21.5	25.7	39.5	20.0	30.7	30.4	46.7
Morocco	MAR	Lower Middle Income	65	14.0	21.5	25.6	39.4	16.7	25.6	28.1	43.3
Myanmar	MMR	Lower Middle Income	52	18.5	35.7	33.2	63.8	21.8	41.8	36.4	70.1
Nepal	NPL	Lower Middle Income	58	15.6	27.0	29.3	50.5	18.3	31.6	31.9	54.9
Nicaragua	NIC	Lower Middle Income	70	9.0	12.9	19.4	27.7	11.4	16.2	22.1	31.5
Nigeria	NGA	Lower Middle Income	47	25.0	53.1	40.7	86.5	27.9	59.4	43.2	92.0
Pakistan	PAK	Lower Middle Income	56	9.0	16.1	19.2	34.3	11.3	20.2	24.0	42.8
Papua New Guinea	PNG	Lower Middle Income	32	41.7	130.4	58.9	184.2	44.4	138.7	60.7	189.8
Philippines	PHL	Lower Middle Income	69	10.0	14.5	20.7	30.0	11.8	17.1	22.9	33.1
Samoa	WSM	Lower Middle Income	62	17.0	27.4	29.2	47.1	20.7	33.4	32.2	52.0
Sao Tome and Principe	STP	Lower Middle Income	60	18.3	30.5	30.9	51.6	20.2	33.7	32.7	54.5
Senegal	SEN	Lower Middle Income	48	24.6	51.3	40.1	83.6	27.5	57.2	42.5	88.6
Solomon Islands	SLB	Lower Middle Income	47	28.6	60.8	43.7	92.9	30.9	65.8	45.5	96.8
Sri Lanka	LKA	Lower Middle Income	72	4.8	6.7	14.8	20.5	6.9	9.6	17.5	24.3
Tajikistan	TJK	Lower Middle Income	72	1.7	2.4	11.2	15.5	4.4	6.1	14.6	20.3
Tanzania	TZA	Lower Middle Income	49	17.7	36.2	32.2	65.7	21.7	44.2	36.8	75.1
Timor-Leste	TLS	Lower Middle Income	48	29.3	61.0	43.8	91.2	31.3	65.3	45.3	94.4
Tunisia	TUN	Lower Middle Income	76	3.0	3.9	11.7	15.4	7.1	9.3	16.4	21.6
Uzbekistan	UZB	Lower Middle Income	79	-0.0	-0.0	7.4	9.3	1.8	2.2	10.4	13.1
Vanuatu	VUT	Lower Middle Income	52	25.2	48.5	39.3	75.5	27.3	52.5	40.9	78.7
Vietnam	VNM	Lower Middle Income	71	8.0	11.3	18.1	25.5	9.9	13.9	20.5	28.9
Zambia	ZMB	Lower Middle Income	62	11.3	18.2	23.9	38.5	14.0	22.6	26.8	43.2
Zimbabwe	ZWE	Lower Middle Income	59	12.5	21.1	25.6	43.4	15.5	26.3	28.9	49.0
Albania	ALB	Upper Middle Income	71	13.2	18.5	23.0	32.4	14.5	20.5	24.1	34.0
Algeria	DZA	Upper Middle Income	70	8.9	12.8	19.0	27.1	11.7	16.7	22.4	32.0
Argentina	ARG	Upper Middle Income	80	5.0	6.3	12.9	16.1	8.5	10.6	16.0	19.9
Armenia	ARM	Upper Middle Income	69	16.0	23.2	25.8	37.4	17.4	25.3	26.9	39.0

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Azerbaijan	AZE	Upper Middle Income	67	14.6	21.8	25.4	37.9	15.8	23.6	26.8	40.0
Belarus	BLR	Upper Middle Income	80	4.0	4.9	12.1	15.1	5.3	6.6	13.6	17.0
Belize	BLZ	Upper Middle Income	70	11.7	16.8	21.9	31.3	12.9	18.5	23.4	33.4
Bosnia and Herzegovina	BIH	Upper Middle Income	64	21.0	32.8	31.3	48.9	22.5	35.1	32.3	50.5
Botswana	BWA	Upper Middle Income	60	23.5	39.2	34.8	58.1	24.8	41.4	35.7	59.5
Brazil	BRA	Upper Middle Income	84	1.0	1.2	7.7	9.2	3.4	4.0	10.4	12.4
China	CHN	Upper Middle Income	85	0.0	0.0	6.3	7.4	1.4	1.7	8.3	9.8
Colombia	COL	Upper Middle Income	82	2.0	2.5	9.4	11.5	3.4	4.1	11.1	13.5
Costa Rica	CRI	Upper Middle Income	84	1.0	1.2	7.7	9.1	3.8	4.5	10.7	12.8
Dominica	DMA	Upper Middle Income	75	8.5	11.4	17.8	23.8	9.8	13.1	19.1	25.5
Dominican Republic	DOM	Upper Middle Income	73	10.5	14.4	20.2	27.6	11.8	16.2	21.4	29.3
Ecuador	ECU	Upper Middle Income	78	5.6	7.2	14.3	18.3	7.0	8.9	15.7	20.1
El Salvador	SLV	Upper Middle Income	79	4.6	5.8	12.9	16.4	5.9	7.5	14.4	18.2
Equatorial Guinea	GNQ	Upper Middle Income	49	30.0	61.2	43.7	89.1	32.7	66.8	45.7	93.3
Fiji	FJI	Upper Middle Income	69	8.4	12.2	18.5	26.7	12.3	17.8	23.2	33.6
Gabon	GAB	Upper Middle Income	48	32.2	67.1	45.6	95.0	34.1	71.0	47.0	97.9
Georgia	GEO	Upper Middle Income	71	12.9	18.2	22.9	32.2	14.3	20.1	24.0	33.8
Grenada	GRD	Upper Middle Income	78	5.8	7.4	14.3	18.4	7.1	9.1	15.7	20.2
Guatemala	GTM	Upper Middle Income	58	24.7	42.6	36.5	62.8	25.9	44.7	37.3	64.4
Indonesia	IDN	Upper Middle Income	67	0.0	0.0	0.0	0.0	11.9	17.7	23.5	35.0
Iran	IRN	Upper Middle Income	81	-0.0	-0.0	6.3	7.8	1.3	1.6	9.3	11.4
Iraq	IRQ	Upper Middle Income	64	18.1	28.2	29.3	45.7	19.3	30.1	30.4	47.5
Jamaica	JAM	Upper Middle Income	74	9.7	13.1	19.2	25.9	11.0	14.9	20.4	27.6
Kazakhstan	KAZ	Upper Middle Income	83	0.5	0.6	7.5	9.0	1.8	2.2	9.2	11.1
Libya	LBY	Upper Middle Income	71	12.4	17.4	22.4	31.6	13.7	19.2	23.6	33.2
Malaysia	MYS	Upper Middle Income	80	3.2	4.0	11.2	14.0	4.5	5.6	12.8	15.9
Maldives	MDV	Upper Middle Income	71	14.0	19.7	23.6	33.2	16.8	23.6	25.5	35.9
Marshall Islands	MHL	Upper Middle Income	66	19.0	28.8	29.1	44.1	21.0	31.8	30.4	46.1
Mauritius	MUS	Upper Middle Income	75	9.3	12.4	18.4	24.6	10.7	14.2	19.7	26.3
Mexico	MEX	Upper Middle Income	79	6.0	7.6	14.1	17.8	7.4	9.4	15.6	19.8
Moldova	MDA	Upper Middle Income	71	12.2	17.2	22.2	31.3	13.5	19.0	23.4	32.9
Mongolia	MNG	Upper Middle Income	70	12.4	17.7	22.7	32.4	13.6	19.4	23.9	34.2
Montenegro	MNE	Upper Middle Income	70	15.0	21.4	24.7	35.3	17.8	25.4	26.6	38.0
Namibia	NAM	Upper Middle Income	66	16.7	25.4	27.6	41.8	18.0	27.3	28.6	43.4
North Macedonia	MKD	Upper Middle Income	69	15.4	22.3	25.4	36.9	16.8	24.4	26.5	38.4
Paraguay	PRY	Upper Middle Income	79	4.8	6.0	13.2	16.7	6.1	7.7	14.6	18.5
Peru	PER	Upper Middle Income	68	15.2	22.3	25.7	37.8	16.5	24.2	26.8	39.4
Saint Lucia	LCA	Upper Middle Income	75	9.4	12.6	18.5	24.7	10.8	14.4	19.8	26.4
Saint Vincent and the Grenadines	VCT	Upper Middle Income	80	3.3	4.2	11.5	14.3	4.7	5.8	13.0	16.2
Serbia	SRB	Upper Middle Income	73	12.0	16.4	21.3	29.1	14.3	19.6	23.0	31.5
South Africa	ZAF	Upper Middle Income	74	9.8	13.3	19.3	26.1	11.2	15.1	20.5	27.7
Suriname	SUR	Upper Middle Income	74	7.5	10.2	16.7	22.6	8.8	11.9	18.5	25.0

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Thailand	THA	Upper Middle Income	82	0.0	0.0	6.8	8.3	1.2	1.5	8.9	10.9
Tonga	TON	Upper Middle Income	71	11.3	16.0	21.4	30.2	12.6	17.7	22.7	32.0
Turkmenistan	TKM	Upper Middle Income	81	3.1	3.8	10.9	13.5	4.5	5.5	12.5	15.4
Tuvalu	TUV	Upper Middle Income	65	20.0	30.8	30.2	46.5	24.0	36.9	32.5	50.0
Türkiye	TUR	Upper Middle Income	77	6.9	9.0	15.7	20.4	8.2	10.7	17.0	22.1
Venezuela	VEN	Upper Middle Income	75	0.0	0.0	6.1	8.2	5.6	7.5	15.4	20.5
Andorra	AND	High Income	75	15.5	20.6	22.6	30.1	15.8	21.1	22.8	30.4
Antigua and Barbuda	ATG	High Income	81	3.7	4.6	10.7	13.2	5.8	7.1	13.6	16.8
Australia	AUS	High Income	89	3.0	3.4	7.9	8.9	3.0	3.4	7.9	8.9
Austria	AUT	High Income	84	8.0	9.5	13.6	16.2	8.0	9.5	13.6	16.2
Bahamas	BHS	High Income	80	8.9	11.1	16.2	20.3	9.7	12.1	16.8	21.0
Bahrain	BHR	High Income	78	8.3	10.6	16.4	21.0	9.8	12.6	17.8	22.9
Barbados	BRB	High Income	82	4.7	5.7	11.9	14.5	6.1	7.4	13.4	16.3
Belgium	BEL	High Income	86	5.9	6.8	11.3	13.2	5.9	6.9	11.4	13.2
Brunei	BRN	High Income	84	0.0	0.0	4.8	5.7	2.3	2.7	9.5	11.3
Bulgaria	BGR	High Income	73	13.6	18.6	22.4	30.7	15.0	20.6	23.5	32.2
Canada	CAN	High Income	92	0.0	0.0	4.1	4.5	0.0	0.0	4.2	4.5
Chile	CHL	High Income	84	3.9	4.7	10.7	12.8	5.0	5.9	11.7	14.0
Croatia	HRV	High Income	76	11.5	15.1	19.7	25.9	12.6	16.6	20.5	27.0
Cyprus	CYP	High Income	76	13.8	18.1	21.2	27.8	14.3	18.8	21.5	28.2
Czechia	CZE	High Income	83	6.5	7.8	13.2	15.9	7.1	8.6	13.7	16.5
Denmark	DNK	High Income	85	7.0	8.2	12.5	14.7	7.0	8.2	12.5	14.7
Estonia	EST	High Income	79	9.9	12.5	17.3	21.9	10.7	13.5	17.9	22.6
Finland	FIN	High Income	86	5.7	6.6	11.2	13.0	5.8	6.7	11.3	13.1
France	FRA	High Income	82	9.5	11.6	15.6	19.0	9.6	11.7	15.6	19.1
Germany	DEU	High Income	87	5.0	5.7	10.2	11.8	5.0	5.7	10.3	11.8
Greece	GRC	High Income	77	11.4	14.8	19.3	25.0	12.3	16.0	19.9	25.8
Guyana	GUY	High Income	73	-0.0	-0.0	-0.0	-0.0	11.9	16.4	21.4	29.4
Hungary	HUN	High Income	80	7.1	8.9	14.8	18.4	8.4	10.5	15.9	19.9
Iceland	ISL	High Income	90	2.0	2.2	6.7	7.4	2.0	2.2	6.7	7.4
Ireland	IRL	High Income	82	10.0	12.2	15.8	19.3	10.0	12.2	15.8	19.3
Israel	ISR	High Income	85	5.7	6.7	11.7	13.8	6.0	7.1	12.0	14.1
Italy	ITA	High Income	82	8.2	10.0	14.8	18.0	8.6	10.5	15.1	18.4
Japan	JPN	High Income	86	4.5	5.2	10.4	12.1	4.9	5.6	10.7	12.5
Kuwait	KWT	High Income	84	3.8	4.5	10.5	12.6	4.9	5.8	11.6	13.8
Latvia	LVA	High Income	77	10.7	13.9	18.8	24.4	11.8	15.4	19.6	25.5
Lithuania	LTU	High Income	78	10.5	13.5	18.2	23.4	11.4	14.6	18.8	24.1
Luxembourg	LUX	High Income	83	9.0	10.8	14.8	17.8	9.0	10.8	14.8	17.8
Malta	MLT	High Income	82	8.5	10.3	15.0	18.3	8.8	10.8	15.2	18.5
Monaco	MCO	High Income	85	7.0	8.2	12.5	14.7	7.0	8.2	12.5	14.8
Nauru	NRU	High Income	62	27.0	43.5	35.6	57.4	27.7	44.7	36.0	58.0
Netherlands	NLD	High Income	85	7.0	8.2	12.5	14.7	7.0	8.2	12.5	14.7
New Zealand	NZL	High Income	89	2.4	2.7	7.5	8.4	2.6	2.9	7.6	8.6

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Norway	NOR	High Income	89	3.0	3.4	7.9	8.9	3.0	3.4	7.9	8.9
Oman	OMN	High Income	73	11.0	15.0	19.5	26.7	13.3	18.2	22.3	30.6
Palau	PLW	High Income	75	12.8	17.1	21.1	28.1	13.9	18.5	21.8	29.1
Panama	PAN	High Income	82	5.5	6.7	12.7	15.5	6.7	8.1	13.8	16.9
Poland	POL	High Income	82	5.5	6.7	12.8	15.6	6.7	8.2	13.9	16.9
Portugal	PRT	High Income	83	6.6	8.0	13.2	16.0	7.2	8.7	13.7	16.5
Qatar	QAT	High Income	84	4.1	4.8	11.0	13.0	5.1	6.0	11.9	14.1
Romania	ROU	High Income	77	8.8	11.4	17.0	22.1	10.5	13.6	18.7	24.3
Russia	RUS	High Income	81	4.6	5.6	11.9	14.7	6.3	7.8	14.0	17.3
Saint Kitts and Nevis	KNA	High Income	80	6.7	8.4	14.4	18.0	8.1	10.2	15.8	19.7
San Marino	SMR	High Income	74	16.7	22.6	23.8	32.2	17.0	23.0	23.9	32.4
Saudi Arabia	SAU	High Income	83	5.1	6.2	12.1	14.6	6.1	7.4	13.0	15.7
Seychelles	SYC	High Income	80	4.2	5.3	11.2	13.9	6.4	8.1	14.5	18.2
Singapore	SGP	High Income	88	2.7	3.1	8.1	9.2	3.0	3.4	8.4	9.6
Slovakia	SVK	High Income	78	10.1	12.9	17.9	23.0	11.1	14.2	18.6	23.9
Slovenia	SVN	High Income	84	5.9	7.0	12.3	14.7	6.4	7.7	12.7	15.2
South Korea	KOR	High Income	88	1.9	2.2	7.5	8.5	2.4	2.8	8.0	9.0
Spain	ESP	High Income	84	6.0	7.1	12.4	14.8	6.5	7.7	12.8	15.2
Sweden	SWE	High Income	85	7.0	8.2	12.5	14.7	7.0	8.2	12.5	14.8
Switzerland	CHE	High Income	87	5.0	5.7	10.3	11.8	5.0	5.7	10.3	11.8
Trinidad and Tobago	TTO	High Income	75	11.6	15.5	20.2	27.0	13.1	17.4	21.3	28.5
United Arab Emirates	ARE	High Income	84	5.1	6.1	11.7	13.9	5.8	7.0	12.3	14.7
United Kingdom	GBR	High Income	88	3.6	4.1	8.9	10.1	3.7	4.2	9.0	10.2
United States	USA	High Income	88	4.0	4.5	9.1	10.4	4.0	4.5	9.1	10.4
Uruguay	URY	High Income	85	3.6	4.2	10.1	11.9	4.5	5.2	10.9	12.8

Note: SCI = UHC Service Coverage Index (observed). Gain (pts) = SCI* - SCI. Gain (%) = 100 x (SCI* - SCI)/SCI, where SCI* is the country's own back-transformed projected coverage. Countries are grouped by World Bank income classification and sorted alphabetically within g